

CLAIMS

1. A working chair with adjustable backrest support pre-set tension,
comprising:

a seat part having a forward edge;

a backrest support having an end part pivotally connected to the seat part;

an energy storing device for biasing the backrest support against the back
of a seated user;

a manually operable adjustment mechanism for adjusting a pre-set
tension of the energy storing device;

a guide bar pivotally mounted at the forward edge of the seat part and
having a free, swiveling end close to the seat edge;

the energy storing device having front end and a rear end, the front end
of the energy storing device being rotatably mounted on the free swiveling end
of the guide bar and the rear end of the energy storing device adjustably
engaging the end part of the backrest support at a contact point; and

the contact point between the rear end of the energy storing device and
the end part of the backrest support being adjustable.

2. The chair as claimed in claim 1, wherein the adjustment mechanism
comprises an interlocking element positioned on the end part of the backrest
support, the interlocking element adapted to be forced into engagement with the
energy storing device.

3. The chair as claimed in claim 2, wherein the interlocking element
comprises a toothed rack having a plurality of catching recesses facing the
energy storing device, the energy storing device comprising a spring and a
spring guide extending through the spring having a front end and a rear end, the
adjustment mechanism further comprising a tooth on the rear end of the spring
guide for engagement in a selected catching recess of the toothed rack.

2 4. The chair as claimed in claim 1, wherein the contact point of the energy storing device on the end part of the backrest support is manually pivotable.

2 5. The chair as claimed in claim 1, wherein the energy storing device comprises a spring.

2 6. The chair as claimed in claim 1, wherein the adjustment mechanism comprises an externally accessible operating lever rotatably mounted on the end part of the backrest support adjacent the rear end of the energy storing device, 4 a bracket rigidly connected to the operating lever and having a slot, the energy storing device having a spring guide which is non-rigidly guided in said slot.

2 7. The chair as claimed in claim 2, wherein the interlocking element is self-locking.

2 8. The chair as claimed in claim 1, wherein the energy storing device comprises a spring guide and a spring mounted on the spring guide, the spring guide being adjustable in length as a result of pivoting movement of the free end 4 of the guide bar, whereby the spring is additionally prestressed by said adjustment of said spring guide.

2 9. The chair as claimed in claim 1, wherein the engagement of the energy storing device with the end part of the backrest support is pre-positioned.

2 10. The chair as claimed in claim 3, further comprising an index pin on the rear end of the energy storing device, the adjustment mechanism having an indexing track into which said index pin engages, the engagement between said 4 index pin and track bringing the tooth of the spring guide opposite a catching recess of the toothed rack.

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11. The chair as claimed in claim 1, wherein the engagement between the rear end of the energy storing device and the end part of the backrest support is stepless.